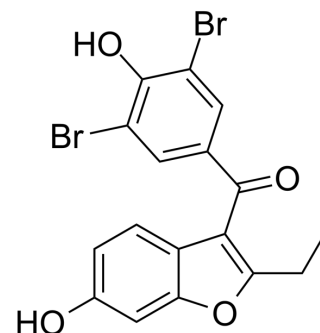


## 6-Hydroxybenzbromarone

<b>Cat. No.:</b>	HY-135774		
<b>CAS No.:</b>	152831-00-0		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> Br <sub>2</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	440.08		
<b>Target:</b>	Drug Metabolite; Phosphatase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (227.23 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2723 mL	11.3616 mL	22.7231 mL
5 mM	0.4545 mL	2.2723 mL	4.5446 mL
10 mM	0.2272 mL	1.1362 mL	2.2723 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

6-Hydroxybenzbromarone is the major metabolite of Benzbromarone with a longer half-life and greater pharmacological potency than the parent compound. 6-Hydroxybenzbromarone is a protein Eyes Absent 3 (EYA3) inhibitor with an IC<sub>50</sub> value of 21.5 μM. 6-Hydroxybenzbromarone is an angiogenic agent, has strong inhibitory effects on cell migration, tubulogenesis, and angiogenic sprouting<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 21.5 μM (EYA3); metabolite<sup>[1]</sup>

#### In Vitro

6-Hydroxybenzbromarone (7.5 μM; 72 hours) shows over 50% reduction in cell proliferation. Meanwhile, treatment with BBR and BZ also reduces cell viability, but none of the other compounds tested has a negative impact on cell viability or proliferation<sup>[1]</sup>.

6-Hydroxybenzbromarone (7.5 μM; 1-20 hours) has inhibitory effects on EC migration and tubulogenesis of HUVECs. However, the effect of 6OH-BBR on tube formation is attenuated in the presence of high concentrations of fetal bovine serum (FBS), likely reflecting non-specific protein binding<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay<sup>[1]</sup>

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Cell Line:	HUVEC cells
Concentration:	7.5 $\mu$ M
Incubation Time:	72 hours
Result:	Inhibited HUVEC cells proliferation.

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## REFERENCES

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[1]. Pandey RN, et al. Structure-activity relationships of benzbromarone metabolites and derivatives as EYA inhibitory anti-angiogenic agents. PLoS One. 2013 Dec 18;8(12):e84582.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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